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TACTICAL AIR COMMAND IANGLEY AFB VA
F-4 RADAR ALTIMETER AURAL WARNING.(U)
JUN 79

F/G 1/4

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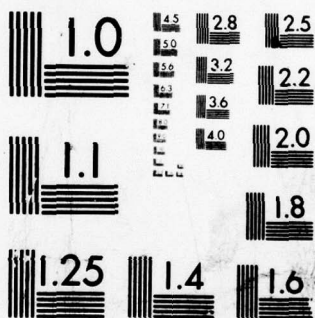
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MICROCOPY RESOLUTION TEST CHART
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LEVEL II
DEPARTMENT OF THE AIR FORCE
HEADQUARTERS TACTICAL AIR COMMAND
LANGLEY AIR FORCE BASE, VIRGINIA 23665

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TAC PROJECT ORDER: (6) F-4 Radar Altimeter Aural Warning.

TAC PROJECT NUMBER: 79G-053F

29 JUN 1979

TO: USAFTFWC/CC

(12) 4 p.

1. Introduction: The F-4 radar altimeter has a red warning light that lights up when the aircraft goes below a selected altitude. This light is small and will not attract the pilot's attention if it is not in his field of view. Numerous accidents have occurred in which aircraft have struck the ground in level terrain when the mission required primarily straight and level flight. It has been postulated that an aural warning supplied by the radar altimeter would have alerted the aircrew in sufficient time to avoid contact with the ground. * (11) 29 JUN 79

2. Description: An aural warning could be triggered by the same electrical signal that illuminates the light on the F-4 radar altimeter. Since there are a multitude of aural warnings in the F-4 already, a synthesized voice could be input thru the intercom to warn both of the aircrew when going below a selected altitude. Synthesized voice generators are readily available because they are used in many commercial aircraft and have recently been incorporated in the new F-15s. Such a voice warning will be installed in an F-4 and flown for a three-month period on operational-type missions to evaluate the utility of the system.

3. Purpose/Scope: Assess the utility/desirability of having a voice warning system connected to the F-4 radar altimeter.

4. Project Plan: A detailed project plan will be prepared by USAFTFWC IAW TACR 55-10. USAFTFWC will provide TAC/DRF with ten copies of the draft project plan for coordination and headquarters distribution.

5. Responsibilities:

a. Headquarters TAC will:

(1) Assign a TAC project officer (Maj James S. Butt, AUTOVON 432-5122).

(2) Assume responsibilities IAW TACR 55-10.

(3) Authorize direct communications between participating agencies.

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b. USAFTFWC will:

- (1) Assign a project manager and assume responsibilities as outlined in TACR 55-10.
- (2) Provide aircrews and aircraft from test resources as required.
- (3) Coordinate, approve, publish, and distribute the F-4 radar altimeter aural warning project plan IAW TACR 55-10.
- (4) Coordinate directly with the contractor.

6. Information: External/Internal news releases will be coordinated with appropriate agencies and will be limited to the purpose of the evaluation. News releases will not state or imply USAF indorsement of the equipment being evaluated. If release of project information is deemed appropriate, the releasing authority is the Commander, USAFTFWC, or his representative.

7. Security: This project is unclassified; however, classified data used and generated during this project will be classified in accordance with AFR 205-1 and other pertinent security directives/guides.

8. Safety: USAFTFWC will conduct a comprehensive safety review encompassing all aspects of the test prior to active testing. The USAFTFWC test project manager will insure compliance with paragraph 208(4), TAC Supplement 1, AFM 127-100 and other applicable safety directives.

9. Resources: The voice warning system to be tested and resources necessary to support this test will be located at Nellis AFB, NV. The project plan will include a complete list of all resources and support required for the test and evaluation. When feasible, test sorties generated from other test projects will be used.

10. Target Dates:

- a. Test Start Date: 15 Aug 79
- b. Test Completion Date: 15 Nov 79
- c. Final Report Due: 30 working days after test completion.

11. Reports:

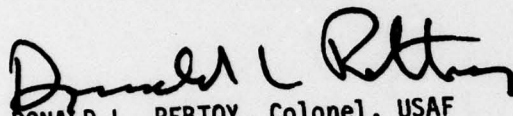
- a. Progress reports will be submitted IAW TACR 55-10.
- b. A preliminary "Quicklook Final Report" by message will be provided to TAC/DR within ten working days after test completion.

12. Priority: TAC priority is 2.

13. Authority: TACR 55-10.

14. Statement of Investigation: Investigation has determined that objectives of this project do not duplicate previous or current testing accomplished by this or other government agencies.

FOR THE COMMANDER


DONALD L. REBTOY, Colonel, USAF
Acting Asst DCS, Requirements

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OA	1		
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Nellis AFB NV 89191		Hickam AFB HI 96853	
TE	5		
TEM	1	HQ AFISC/SEFF	1
TA	1	Norton AFB CA 92409	
OA	1		
PR	1	USAFTAWC	
RG	1	Eglin AFB FL 32542	
DO	1	DO	1
422 FWS/CC	2	SE	1
Nellis AFB NV 89191		TX	1

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